

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	(sleeve and valve and stinger and (well wellbore) and port and first and second and annulus).clm.	US-PGPUB	OR	ON	2007/02/01 18:44
L2	37	166/114,142,143,148,150,151,152, 184,316,332.1,373,374,386.ccls. and (@pd>"20061020")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/01 18:44
S1	8	("20010015277" "4440221" "4453599" "5109925" "6109356" "6325153" "6334486" "6378612").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/23 18:28
S2	20	("3375874"   "3494417"   "3964305"   "4274486").PN. OR ("4453599"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/23 19:36
S3	20	("3493052"   "3575237"   "3964556"   "3965978"   "3970147"   "4069865").PN. OR ("4274486"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/23 19:41
S4	58	("2591087"   "2855952"   "3025919"   "3358771"   "3583481"   "3664415"   "3749119"   "3750752"   "3796261"   "3814182"   "3823773").PN. OR ("3970147"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/23 19:47
S5	2794	166/114,142,143,148,150,151,152, 184,316,373,374,386.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/24 16:20
S6	267	S5 and ((sleeve piston) and valve and port).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/02 14:08
S7	2922	166/114,142,143,148,150,151,152, 184,316,332.1,373,374,386.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/24 18:27
S8	278	S7 and ((sleeve piston) and valve and port).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/24 18:22

## EAST Search History

S9	78	shroud and (rupture adj disc)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/24 18:21
S10	0	S7 and ((sleeve piston) and circulation and shroud).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/24 18:23
S11	1	S7 and ((sleeve piston) and shroud).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/24 18:23
S12	16	S7 and ((sleeve piston) and shroud)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/24 18:23
S13	412	"166"/\$.ccls. and shroud	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/24 18:33
S14	91	S13 and circulation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/24 18:28
S15	210	"166"/\$.ccls. and shroud and pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/24 18:34
S16	31	("1861332"   "1956694"   "2910002"   "2982357"   "2991833"   "3064580"   "3170520"   "3326292"   "3765483"   "4399865"   "4595057"   "4794989"   "4815791"   "5271462"   "5404943"   "5535825"   "5775420"   "5832520"   "5881814"   "6033567"   "6092599"   "6092600").PN. OR ("6325143").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/25 14:47
S17	2829	166/114,142,143,148,150,151,152,184,316,373,374,386.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/02 14:59

## EAST Search History

S18	178	S17 and ((sleeve) and valve and port).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/02 14:08
S19	39	166/114,142,143,148,150,151,152, 184,316,332.1,373,374,386.ccls. and (@pd>"20050924")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/17 21:07
S20	67	166/114,142,143,148,150,151,152, 184,316,332.1,373,374,386.ccls. and (@pd>"20060302")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 22:12
S21	23	166/114,142,143,148,150,151,152, 184,316,332.1,373,374,386.ccls. and (@pd>"20060817")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/01 18:44